

Vanlerberghe, Daren

From: Hughes, Matt [mhughes@WM.COM]
Sent: Tuesday, July 15, 2014 6:06 AM
To: Vanlerberghe, Daren
Cc: Connolly, James; Gosine, Jairaj; Lucier, Eric; Grady, Mark
Subject: Wheelabrator Saugus
Attachments: DOC.PDF; RE: Wheelabrator Saugus COC for Wastewater sampling

Daren:

Additional follow up from your site visit last month. One of your suggestions was that we should add a 3rd point check to the calibration procedure for the sewer discharge pH probe calibration. We have revised the procedure to include a check at pH 7, in addition to 4 and 10. The attached PDF file lays out the revised procedure.

I have also looked into the questions you had on sewer discharge monitoring for oil and grease. There was a question of how the sample are collected, and specific to the 2011 samples, the question of the samples being placed in plastic instead of glass containers. The attached email contains a clarification memo from the sampling contractor. They indicate that amber glass containers are always used, and the sample preserved with HCL. They also clarify that these samples are taken direct to the sample container from the sampling point.

I have also conveyed the request to list each sample container on a separate line on the COC, this would prevent confusion as far as samples and sample containers being used.

If you have any questions, please let me know.

Thanks.

Matt Hughes

Regional Environmental Manager-MA/NH

Wheelabrator Technologies

A Waste Management Company

4 Liberty Lane West

Hampton, NH

Tel 603 929 3328

Cell 603 303 0721

www.wheelabratortechnologies.com

Twitter @WM_WTI

Description M Calibration Sewer pH Probe**Equipment** 22-201 Instrumentation and Controls**Wo Type** PM-Master Plan**Status** Approved**Supervisor****Priority** 3**Work Class** PM**Criticality** 2**Requested Completion****Assigned To****2nd Assigned****Budgeted Cost** \$0.00**Department** Electrical and Instrumei**Total Planned** \$0.00**Entered By** Cuttle, Jack**Cost Center** Wastewater System**Entered Date** 2/24/2003 11:56:04:795**System** Instrumentation and Controls**Requestor** Cuttle, Jack**Budget Class** Routine R&M**Approver****Account** 720.521000**Equipment** 22-201 Instrumentation and Controls**Serial #****Equip. Specs****Train** Common**Environmental** ☐

X 0

Safety ☐**Location****Comments** Perform a two point calibration fo the sewer water PH probe and perform a 3rd point check.**Resources**

Resource	Occurrence	Workers	Planned Hours	Actual Hours	Remaining Hours
E&I	1	1	1	0	1
Total Hours			1	0	1

Documents**Work Order**

Document Id	Document Type	Description
7/11/2014-548	Adobe Acrobat	Cal Sheet pH

Storage Location O:\Record Storage\Saugus\22-201 Calibration

Work Order Instructions

Department: Electrical Maintenance

Safety Procedures: LOTO and Safe Work Procedures

Sewer PH 2-point Calibration and 3rd point check**Procedure:**

1. Notify control room to place sewer Ph in calibration mode (Lamella screen graphic 92)
2. Confirm that the pH input has a slope between 51 and 62 mV/pH. If outside this range, probe must be changed
3. Pull pH probe, wipe probe down with a clean rag (If sensor is left dry for a few hours, it will be damaged)
4. Submerge probe in safe acid for atleast one minute, then purge probe with water
5. Fill 3 cups, one with pH 4, one with pH 7 and the other with pH 10
6. CALIBRATION SET UP: Initializing Calibration-
 - 6.1 Press EXAM/CANCEL key to place display in "examination" mode and to indicate pH "cal value"
 - 6.2 Press Next key until display indicates "Buffer Cal"
 - 6.3 Press <--- key to make display indicate "2pt."
 - 6.4 Press ENTER key until display indicates "LO BUFFER VALUE"
 - 6.5 Press NEXT key once to make display indicate "HI BUFFER VALUE"
 - 6.6 Use arrow keys to make display 4.00 if value is not already 4.00, then press ENTER
 - 6.7 Press NEXT key once to make display indicate "hi buffer value"
 - 6.8 Use arrow key to mkae display 10.00 if value is not already 10.00, then press ENTER
 - 6.9 Press EXAM/CANCEL key to return display to pH measureing mode
7. CALIBRATION: Two-point Calibration with 3rd point check-
 - 7.1 Place clean sensor in the pH 4 value buffer
 - 7.2 Press BEGIN CAL key
 - 7.3 When the pH and the deg F indicators are both on (not flashing), press END CAL button
 - 7.4 Remove sensor from the pH 4 value buffer. Rinse sensor in clean water and place in the 10 pH value buffer
 - 7.5 Press BEGIN CAL key
 - 7.6 When the pH and deg F indicators are both on (not flashing), press END CAL button.
 - 7.7 Remove sensor from the pH 10 value buffer. Rinse sensor in clean water.
 - 7.8 Place the sensor in the pH 7 value buffer and record the result
8. When calibration is complete notify control room to remove sewer Ph from calibration mode (Lamella screen graphic 92)

Vanlerberghe, Daren

From: Kenneth Boivin [kenneth.boivin@gza.com]
Sent: Monday, July 14, 2014 3:22 PM
To: Hughes, Matt
Cc: Ronald Breton
Subject: RE: Wheelabrator Saugus COC for Wastewater sampling
Attachments: Wheelabrator071414.pdf

Hi Matt:

Attached is the letter requested from ESS documenting that the containers used for oil and grease sampling in 2011 were glass and not plastic.

I apologize for the delay in getting this to you. I had hoped to have it available last week.

Please let me know if you need additional information.

Regards,

Ken

Kenneth Boivin, CHMM
Associate Principal
GZA GeoEnvironmental, Inc.
5 Commerce Park North, Suite 201
Bedford, New Hampshire 03110
p: 603.232.8719
f: 603.624.9463
c: 603.566.9784

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-----Original Message-----

From: Hughes, Matt [mailto:mhughes@WM.COM]
Sent: Monday, July 14, 2014 2:18 PM
To: Kenneth Boivin
Cc: Ronald Breton
Subject: RE: Wheelabrator Saugus COC for Wastewater sampling

OK. Thanks.

-----Original Message-----

From: Kenneth Boivin [mailto:kenneth.boivin@gza.com]
Sent: Monday, July 14, 2014 14:11
To: Hughes, Matt
Cc: Ronald Breton
Subject: RE: Wheelabrator Saugus COC for Wastewater sampling

Hi Matt:

ESS will have a memo out to us tomorrow. We had expected it from them last week.

Thanks,

Ken

Kenneth Boivin, CHMM
Associate Principal
GZA GeoEnvironmental, Inc.
5 Commerce Park North, Suite 201
Bedford, New Hampshire 03110
p: 603.232.8719
f: 603.624.9463
c: 603.566.9784

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-----Original Message-----

From: Hughes, Matt [mailto:mhughes@WM.COM]
Sent: Monday, July 14, 2014 1:31 PM
To: Kenneth Boivin
Cc: Ronald Breton
Subject: RE: Wheelabrator Saugus COC for Wastewater sampling

Ken:

Any update on my request from last week?

Thanks.

-----Original Message-----

From: Hughes, Matt
Sent: Wednesday, July 09, 2014 9:09
To: 'Kenneth Boivin'
Cc: Ronald Breton
Subject: RE: Wheelabrator Saugus COC for Wastewater sampling

How about a memo from ESS referencing the 2011 testing that corrects and the error on the COCs?.

-----Original Message-----

From: Kenneth Boivin [mailto:kenneth.boivin@gza.com]
Sent: Tuesday, July 08, 2014 18:02
To: Hughes, Matt
Cc: Ronald Breton
Subject: RE: Wheelabrator Saugus COC for Wastewater sampling

Hi Matt:

The individual who did the sampling has confirmed that the 2011 FOG samples were taken directly in glass containers as per the standard practice. 'P' was listed on the COC in error. Do you need a corrected document or some other documentation from ESS?

Thanks,

Ken

Kenneth Boivin, CHMM
Associate Principal
GZA GeoEnvironmental, Inc.
380 Harvey Road
Manchester, New Hampshire 03103
p: 603.232.8719
f: 603.624.9463
c: 603.566.9784

Exciting News! GZA's Manchester office will be moving on Friday July 11, 2014 to our new address at 5 Commerce Park North, Bedford, New Hampshire 03110. All other contact information will remain the same.

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-----Original Message-----

From: Hughes, Matt [mailto:mhughes@WM.COM]
Sent: Tuesday, July 01, 2014 9:11 AM
To: Kenneth Boivin; Ronald Breton
Subject: Wheelabrator Saugus COC for Wastewater sampling

I will call to discuss, but to summarize. We just went through a Clean Water Act inspection with EPA that started late last week and concluded yesterday. One of their suggestions is to break out the different test parameters when we are using different containers and preservations methods. See the sample I circled in the attached. This one should be two lines, one for the field pH and temp in the 125 ml plastic container. The other in the 1 liter glass for O&G.

The other item for O&G is that we need to have assurance that ESS is taking the grab for O&G direct to the glass container. They cannot be collecting a sample meant for O&G into plastic, then transferring to glass. Not sure if the best way to memorialize this is in the sampling procedure, or include a statement on the COC.

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ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

*The Microbiology Division
of Thielsch Engineering, Inc.*



July 14, 2014

Kenneth Boivin
GZA GeoEnvironmental, Inc
380 Harvey Road
Manchester, New Hampshire 03103

RE: Wheelabrator Oil & Grease

Dear Kenneth Boivin:

We have reviewed the reports you had attached and researched The Oil & Grease samples on October 18 and October 20, 2011. The original chains receiving the samples into the Hopkinton Laboratory stated that the Oil & Grease samples had been sampled in plastic bottles. This is not the standard practice of the field samplers. All Oil & Grease samples are taken in one liter amber bottles and preserved with hydrochloric acid (HCl).

When looking further into each report, there is a second chain sending the samples to ESS Laboratory in Cranston, RI. These chains are attached and state that Oil & Grease samples were sent to ESS Laboratory in glass bottles preserved with HCl.

The final check is on the cooler receipt checklist at ESS Laboratory. Samples were received in one liter glass bottles, preserved with HCl, and bar-coded as such. See attached form.

We hope this information will help you resolve the issue of the bottles. If you have any further questions, please do not hesitate to contact me.

Sincerely

Laurel Stoddard
Laboratory Director

W.O.# 1110-00097
(for lab use only)

ESS LABS
11/02/82

CHAIN-OF-CUSTODY RECORD

[illegible]

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2°C)
Specify "Other" preservatives and container types in this space.

Report Method Blank and Laboratory Control Sample Results

Project Manager: <u>Michelle Miranda</u>		LAB USE:		Temp Blank
		Temp. OF COOLER	LS	Cooler Air
TURNAROUND TIME: <u>Standard</u> <u>Rush</u>		Approved by: <u>[Signature]</u>	Temp. OF COOLER	Temp Blank
		Days	Temp. OF COOLER	Cooler Air
GZA FILE NO: <u>04.0029242.00</u>		TASK NO: <u>740</u>	P.O. NO.	
PROJECT		Fall Semi-Annual Monitoring		
LOCATION		Saugus, MA		
COLLECTOR(S)		JJ	SHEET 1	OF 1

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Client Project ID: _____

Shipped/Delivered Via: ESS CourierESS Project ID: 11100282Date Project Due: 10/25/11Days For Project: 4 Day**Items to be checked upon receipt:**

1. Air Bill Manifest Present?

☐ * No

Air No.:

2. Were Custody Seals Present?

☐ No

3. Were Custody Seals Intact?

☐ N/A

4. Is Radiation count < 100 CPM?

☐ Yes

5. Is a cooler present?

☐ YesCooler Temp: 3.2Iced With: Icepacks

6. Was COC included with samples?

☐ Yes

7. Was COC signed and dated by client?

☐ Yes

8. Does the COC match the sample

☐ Yes

9. Is COC complete and correct?

☐ Yes

10. Are the samples properly preserved?

☐ Yes

11. Proper sample containers used?

☐ Yes

12. Any air bubbles in the VOA vials?

☐ N/A

13. Holding times exceeded?

☐ No

14. Sufficient sample volumes?

☐ Yes

15. Any Subcontracting needed?

☐ No16. Are ESS labels on correct containers? ☒ Yes ☐ No17. Were samples received intact? ☒ Yes ☐ No

ESS Sample IDs: _____

Sub Lab: _____

Analysis: _____

TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____

By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Glass	2	HCL

Completed By: mkDate/Time: 10/19/11

Reviewed By: _____

Date/Time: 10/19/11

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 11100280
Date Project Due: 10/25/11
Days For Project: 4 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?

☒ * No

Air No.:

2. Were Custody Seals Present?

☐ No

3. Were Custody Seals Intact?

☐ N/A

4. Is Radiation count < 100 CPM?

☐ Yes

5. Is a cooler present?

☐ YesCooler Temp: 3.2Iced With: Icepacks

6. Was COC included with samples?

☐ Yes

7. Was COC signed and dated by client?

☐ Yes

8. Does the COC match the sample

☐ Yes

9. Is COC complete and correct?

☐ Yes

10. Are the samples properly preserved?

☐ Yes

11. Proper sample containers used?

☐ Yes

12. Any air bubbles in the VOA vials?

☐ N/A

13. Holding times exceeded?

☐ No

14. Sufficient sample volumes?

☐ Yes

15. Any Subcontracting needed?

☐ No

16. Are ESS labels on correct containers?

☒ Yes/☒ No

17. Were samples received intact?

☒ Yes/☒ No

ESS Sample IDs: _____

Sub Lab: _____

Analysis: _____

TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____

By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Glass	2	HCL
2	Yes	1 L Plastic	2	NP

Completed By: mkDate/Time: 10/19/11Reviewed By: [Signature]Date/Time: 10/19/11

W.O. # 1110-00109
(for lab use only)

ESS LABS
1110346

CHAIN-OF-CUSTODY RECORD

[illegible]

C:\Program Files\Internet Explorer\Internet Explorer.exe

Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 11100346
Date Project Due: 10/27/11
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?

☐ * No

Air No.:

2. Were Custody Seals Present?

☐ No

3. Were Custody Seals Intact?

☐ N/A

4. Is Radiation count < 100 CPM?

☐ Yes

5. Is a cooler present?

☐ YesCooler Temp: 3.3Iced With: Icepacks

6. Was COC included with samples?

☐ Yes

7. Was COC signed and dated by client?

☐ Yes

8. Does the COC match the sample

☐ Yes

9. Is COC complete and correct?

☐ Yes

10. Are the samples properly preserved?

☐ Yes

11. Proper sample containers used?

☐ Yes

12. Any air bubbles in the VOA vials?

☐ N/A

13. Holding times exceeded?

☐ No

14. Sufficient sample volumes?

☐ Yes

15. Any Subcontracting needed?

☐ No16. Are ESS labels on correct containers? ☒ Yes ☐ No17. Were samples received intact? ☒ Yes ☐ No

ESS Sample IDs: _____

Sub Lab: _____

Analysis: _____

TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____

By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Glass	2	HCL
2	Yes	1 L Plastic	2	NP
3	Yes	1 L Glass	2	HCL

Completed By: mkDate/Time: 10/20/11Reviewed By: EmDate/Time: 10/20/11

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Sample and Cooler Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Client Project ID: _____

Shipped/Delivered Via: ESS CourierESS Project ID: 11100369Date Project Due: 10/28/11Days For Project: 5 Day**Items to be checked upon receipt:**

1. Air Bill Manifest Present?

☐ * No

Air No.:

2. Were Custody Seals Present?

☐ No

3. Were Custody Seals Intact?

☐ N/A

4. Is Radiation count < 100 CPM?

☐ Yes

5. Is a cooler present?

☐ YesCooler Temp: 5.1Iced With: Icepacks

6. Was COC included with samples?

☐ Yes

7. Was COC signed and dated by client?

☐ Yes

8. Does the COC match the sample

☐ Yes

9. Is COC complete and correct?

☐ Yes

10. Are the samples properly preserved?

☐ Yes

11. Proper sample containers used?

☐ Yes

12. Any air bubbles in the VOA vials?

☐ N/A

13. Holding times exceeded?

☐ No

14. Sufficient sample volumes?

☐ Yes

15. Any Subcontracting needed?

☐ No16. Are ESS labels on correct containers? ☒ Yes ☐ No17. Were samples received intact? ☒ Yes ☐ No

ESS Sample IDs: _____

Sub Lab: _____

Analysis: _____

TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____

By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Plastic	2	NP
2	Yes	1 L Glass	2	H2SO4

Completed By: [Signature]

Date/Time: 10/21/11

Reviewed By: [Signature]

Date/Time: 10/21/11

CHAIN-OF-CUSTODY RECORD

[illegible]

W.O. # 1104-00150
(for lab use only)

RIAL

CHAIN-OF-CUSTODY RECORD

Sample I.D.	Date/Time Sampled	Matrix A=Air S=Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. P=Product (specify)	ANALYSIS REQUIRED	Total No. of Cont.	Note #
Outfall 001 Grab	4/21/11 @ 0830	WW	<input type="checkbox"/> pH <input type="checkbox"/> GC Methane, Ethane, Ethene <input type="checkbox"/> EPA 8260-8010 List <input type="checkbox"/> EPA 8021-Full List <input type="checkbox"/> EPA 8021-8010 List (Chlor.) <input type="checkbox"/> EPA 524.2 DW VOCs <input type="checkbox"/> EPA 624 WW VOCs/MWRA <input type="checkbox"/> 601 <input type="checkbox"/> 602 WW VOCs <input type="checkbox"/> EPA 8270 SVOCs <input type="checkbox"/> EPA 8270 PAH <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> EPA 625 WW SVOCs <input type="checkbox"/> EPA 8082-PCBs <input type="checkbox"/> EPA 8081-Pest <input type="checkbox"/> TPH-GC (Mod. 8100) <input type="checkbox"/> TPH-GC w/FING <input type="checkbox"/> EPH (MA DEP) <input type="checkbox"/> VPH (MA DEP) <input type="checkbox"/> Metals <input type="checkbox"/> PM-10 <input type="checkbox"/> R-8 <input type="checkbox"/> MCP 14 Metals (MA) <input type="checkbox"/> Metals (List Below) <input type="checkbox"/> TCLP - Specify Below <input type="checkbox"/> SPLP - Specify Below <input type="checkbox"/> EPA 300 <input type="checkbox"/> Cl <input type="checkbox"/> NO3 <input type="checkbox"/> SO4 <input type="checkbox"/> FOG-1664 <input type="checkbox"/> TSS <input type="checkbox"/> BOD	2	
Outfall 001 Composite	4/21/11 @ 0830	WW	<input type="checkbox"/> pH <input type="checkbox"/> GC Methane, Ethane, Ethene <input type="checkbox"/> EPA 8260-8010 List <input type="checkbox"/> EPA 8021-Full List <input type="checkbox"/> EPA 8021-8010 List (Chlor.) <input type="checkbox"/> EPA 524.2 DW VOCs <input type="checkbox"/> EPA 624 WW VOCs/MWRA <input type="checkbox"/> 601 <input type="checkbox"/> 602 WW VOCs <input type="checkbox"/> EPA 8270 SVOCs <input type="checkbox"/> EPA 8270 PAH <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> EPA 625 WW SVOCs <input type="checkbox"/> EPA 8082-PCBs <input type="checkbox"/> EPA 8081-Pest <input type="checkbox"/> TPH-GC (Mod. 8100) <input type="checkbox"/> TPH-GC w/FING <input type="checkbox"/> EPH (MA DEP) <input type="checkbox"/> VPH (MA DEP) <input type="checkbox"/> Metals <input type="checkbox"/> PM-10 <input type="checkbox"/> R-8 <input type="checkbox"/> MCP 14 Metals (MA) <input type="checkbox"/> Metals (List Below) <input type="checkbox"/> TCLP - Specify Below <input type="checkbox"/> SPLP - Specify Below <input type="checkbox"/> EPA 300 <input type="checkbox"/> Cl <input type="checkbox"/> NO3 <input type="checkbox"/> SO4 <input type="checkbox"/> FOG-1664 <input type="checkbox"/> TSS <input type="checkbox"/> BOD	2	

1104-07530
 Temp Blank
 Cooler Air

Project Manager: Michelle Mirenda
 GZA GEOENVIRONMENTAL, INC.
 106 South Street
 Hopkinton, MA 01748
 508-435-9244
 FAX 508-435-9912

TURNAROUND TIME: Standard 4 days
 LAB USE: Temp Blank
 Approved by: A. Ford
 P.O. NO.: 04.0029242.00
 TASK NO.: 04.0029242.00
 GZA FILE NO.: 04.0029242.00
 PROJECT: Semi-Annual Monitoring
 LOCATION: Saugus, MA
 COLLECTOR(S): JJ SHEET 1 OF 1

PRESERVATIVE (CH₂Cl₂, MeOH, N₂O, S-H₂SO₄, N-HNO₃, S-H₂SO₄, Na-OH, O-Other)*
 CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*
 RELINQUISHED BY: Pen-Hill 4/21/11 1500 DATE/TIME: 4-22-11 1330
 RECEIVED BY: 4/22/11 DATE/TIME: 11:30 AM
 RELINQUISHED BY: 4/22/11 DATE/TIME: 11:30 AM
 RECEIVED BY: 4/22/11 DATE/TIME: 11:30 AM

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2°C)
 *Specify "Other" preservatives and container types in this space.
 Report Method Blank and Laboratory Control Sample Results

W.O. # 1104-00138
(for lab use only)

NEICVP1083E01

Wheelabrator Saugus, Inc.
Saugus, Inc.

C:\Users\luis.galindo\Desktop\RIAL COC's\NH NYCOA.WW\RIAL.COC.s\ssx

